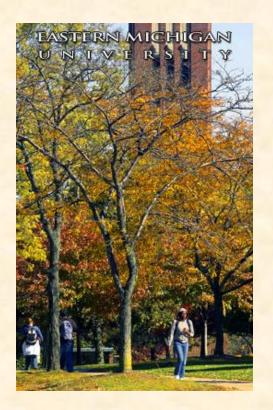
Eastern Michigan University & ESRI Michigan's K-12 GIS License Program



Presented by:

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http://esrik-12gis.emich.edu/k12/



PRESENTATION OUTLINE

- What is the EMU/ESRI K-12 License Program?
- Why use GIS in K-12 education?
- Who benefits from the program?
- What are the benefits of the program?
- How do I apply for benefits?
- Website Overview
- I'm not an Educator; Can I get involved?
- Join the Geospatial Revolution!

WHAT IS THE EMU/ESRI K-12 LICENSE PROGRAM?

- Collaboration between <u>EMU's College of Education</u>, <u>Michigan Virtual University and ESRI</u>.
- Administrative, development and technical support services provided by the Institute for Geospatial Research & Education and the Department of Geography & Geology through the College of Arts & Sciences.
- Provides access to free software, free training and free limited technical support to all K-12 schools.
- Use for teaching, learning, research, and administrative uses throughout the entire state of Michigan.

WHY USE GIS IN K-12 EDUCATION?

SOCIAL STUDIES CONTENT EXPECTATION – GRADES 6 - 12

GEOGRAPHY

GI THE WORLD IN SPATIAL TERMS: GEOGRAPHICAL HABITS OF MIND

Describe the relationships between people, places, and environments by using information that is in a geographic (spatial) context. Engage in mapping and analyzing the information to explain the patterns and relationships they reveal both between and among people, their cultures, and the natural environment. Identify and access information, evaluate it using criteria based on concepts and themes, and use geography in problem solving and decision making. Explain and use key conceptual devices (places and regions, spatial patterns and processes) that geographers use to organize information and inform their study of the world.

GI.I Spatial Thinking

Use maps and other geographic tools to acquire and process information from a spatial perspective.

Geographers use published maps, sketch (mental) maps, and other geographic representations, tools, and technologies to acquire, organize, process, and report information from a spatial perspective. World maps made for specific purposes (population distribution, climate patterns, vegetation patterns) are used to explain the importance of maps in presenting information that can be compared, contrasted, and examined to answer the questions "Where is something located?" and "Why is it located there?" Students will begin with global scale and then refocus the scale to study the region of the Western Hemisphere, and, finally, focus on a specific place.

- 6 G1.1.1 Describe how geographers use mapping to represent places and natural and human phenomena in the world.
- 6 G1.1.2 Draw a sketch map from memory of the Western Hemisphere showing the major regions (Canada, United States, Mexico, Central America, South America, and Caribbean).

G1.2 Geographical Inquiry and Analysis

Use geographic inquiry and analysis to answer important questions about relationships between people, cultures, their environment, and relations within the larger world context.

Geographers use information and skills to reach conclusions about significant questions regarding the relationships between people, their cultures, the environments in which they live, and the relationships within the larger world context. Students will reach their own conclusions using this information and make a reasoned judgment about the most justifiable conclusion based on the authenticity of the information, their skill at critically analyzing the information, and presenting the results of the inquiry.

WHO BENEFITS FROM THE K-12 PROGRAM?

SCHOOLS & TEACHERS - School Campus License for instructional use that includes all instructional computers on the school campus as well as teachers' personal computers.

ADMINISTRATORS & DISTRICTS - Administrative Use License for use in the operation/management of an educational institution. It allows administrative offices to perform functions such as demographic planning, school transportation, and facilities management.

STUDENTS & **PARENTS** - Student License for use by qualified students and educators at home or on a personal computer. This license is held by an individual person rather than the educational institution.

SCOPE - Available to all public, private and parochial school systems including home schooled and after school educational programs (i.e. 4-H, Boy & Girl Scouts, Not-for- Profits or Corporations working with students).

WHAT ARE THE BENEFITS OF THE PROGRAM?

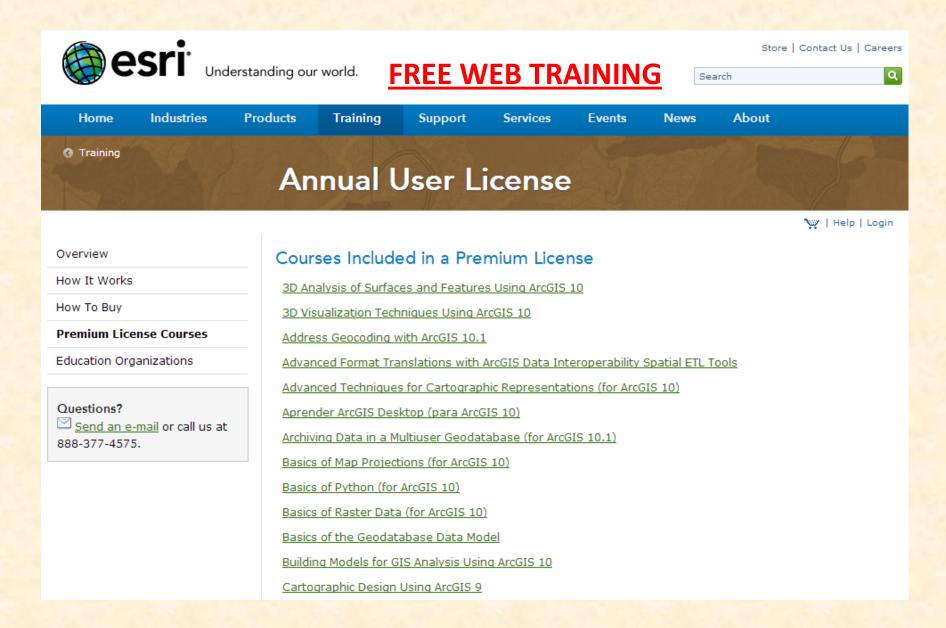
FREE SOFTWARE

- ArcGIS 10.1 for Desktop (Basic, Standard & Advanced)
- ArcGIS Server (Advanced Enterprise, Advanced Workgroup, ArcGIS Image Server, ArcGIS Tracking Server, ArcIMS)
- Arc Logistics Desktop (routing & scheduling)
- ESRI City Engine (3D modeling)
- ArcGIS Online (GIS in the Cloud)

FREE EXTENSIONS

3D Analyst, ArcGIS Data Reviewer, ArcGIS for Maritime, ArcScan, COGO, Data Interoperability, ESRI Aeronautical Solution, ESRI Defense Mapping, ESRI Production Mapping, Geostatistical Analyst, Mapplex, Network Analyst, publisher, Schematics, Apatial Analyst, Tracking Analyst, Workflow Manager

WHAT ARE THE BENEFITS OF THE PROGRAM?



HOW DO I APPLY FOR BENEFITS?

GETTING STARTED

http://esrik-12gis.emich.edu/k12/



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 - Registration
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 Request

Request Software



Eastern Michigan University (EMU) is proud to partner with ESRI, the world's GIS software leader. Though this cooperative effort, EMU is able to provide members of the Michigan K-12 GIS community (teachers, students, youth group organizers, administrators, schools and school districts) free GIS software to those who agree to the *permitted uses* listed in the Licensing Agreement.

This state-of-the-art software will enable administrators, educators and students alike to access, visualize and analyze a wealth of information from and about their own communities and the world.

We highly recommend communicating with a school administrator, other teachers and/or a school information technology coordinator prior to submitting a software request in order to avoid duplicate requests and to facilitate the most effective school use of the software as possible. We also highly

What's New

- Free ESRI Virtual Campus Course "Teaching with GIS" (You need a Free ESRI Global Account to take the course)
- ArcGIS Online User Guidelines
- ArcGIS Online -Introductory
 Videos
- ArcGIS Online -Diving Deeper
- Teacher PD Jan. 2013
- EMU K-12 Press Release

WEBSITE OVERVIEW

http://esrik-12gis.emich.edu/k12/



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Press Release



YPSILANTI, MICH. - An exciting collaboration, that benefits ALL K-12 students, teachers and school administrators in the State of Michigan, provides a complete suite of geographic information systems (GIS) FREE to K-12 schools.

This partnership, between Environmental Systems

Research Institute (ESRI) and Eastern Michigan University, changes the way teachers can design learning opportunities and teach their K-12 students. Due to the availability of ArcGIS, a state-of-the-art GIS software suite, all public, charter, parochial and private schools can join the Geospatial Revolution today. Educators and students should visit the EMU Michigan ESRI K-12 GIS license website to register and download the software>.

Read more

What's New

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- EMU K-12 Press Release
- Hurricane Sandy The

HOW CAN I BECOME INVOLVED? Become a GeoMentor

- GIS professionals understand the power of GIS.
- Your work affects your community and the world.
- Volunteer and share your knowledge with schools, teachers, informal
 youth groups and young people in your community.
- Help educators and students develop skills in geographic thinking.
- Help get support problems solved, and provide youth with powerful new knowledge that fosters long-term skills.
- Share experience with those around you and help them learn about the power of GIS.

SO, DO YOU MEAN YOU WANT ME TO TEACH ArcGIS DESKTOP?

ARE YOU CRAZY!

NO! LETS USE ArcGIS ONLINE INSTEAD IT'S GIS IN THE CLOUD!

- <u>Content-based GIS Management System</u> Software delivered as a service; nothing to install or setup; easy and intuitive workspace; publish maps as feature or tiled map services.
- Ready to Use Content Basemaps, demographic maps, image services and data.
- <u>Easily Add Data</u> Add your data, create mashups, add pop-ups.
- Make Maps directly in Excel ESRI maps for Office add-in.
- <u>Security and Data Ownership</u> control access with multiple layers of security.

THE BEST TOOL FOR K-12 TEACHERS

ArcGIS ONLINE

HTTP://WWW.ARCGIS.COM/ABOUT/

The Mapping Platform for Your Organization

Create interactive maps and apps and share them with the rest of your organization. Realize new opportunities and gain insight into your data. Do this quickly and easily with nothing to install or setup.

30-DAY FREE TRIAL





Reach Your Users

Share your maps and data through blogs, social media, or custom apps. Learn more



Go Mobile

Your maps and information can be accessed from anywhere. Learn more



Ready-to-use Content

Choose from a variety of beautiful basemaps to kick-start your projects. Learn more

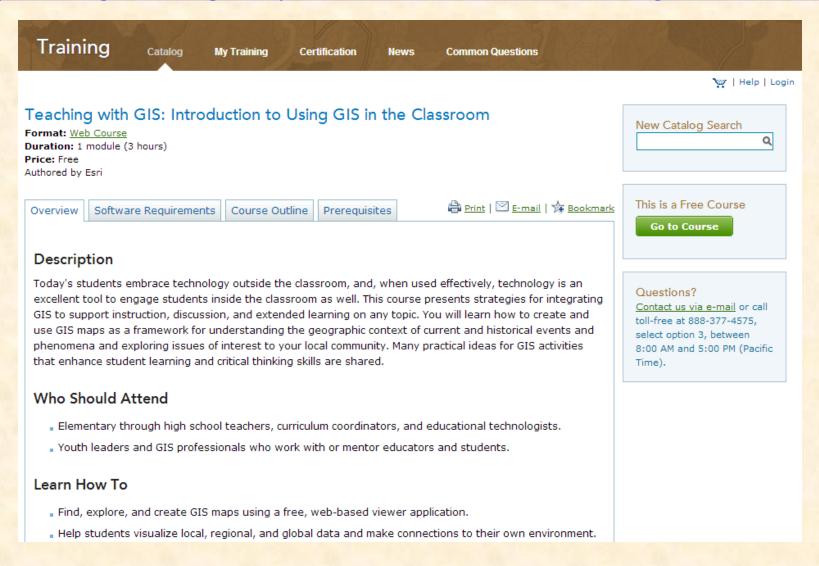


Maps for Personal Use

Discover useful maps, data, and other information. Home | Map | Gallery | Help

Teaching with GIS: Introduction to Using GIS in the Classroom

http://training.esri.com/gateway/index.cfm?courseid=2198&fa=catalog.webCourseDetail



INTRODUCTION TO THE GEOSPATIAL REVOLUTION

HTTP://GEOSPATIALREVOLUTION.PSU.EDU/EPISODE1

